

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|---|---|------------------|---------|---------------------|
| L1 | 2 | ("20030010993").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 14:15 |
| S1 | 4 | ("20030010993" "6252255").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/11 18:49 |
| S2 | 1 | "10585744" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/11 18:51 |
| S3 | 96902 | (III near nitride) or (III \$1nitride) or (III\$1V) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/11 20:26 |
| S4 | 3425 | (n\$1type or n\$1dop\$3) near4 (Germanium Ge) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/11 20:27 |
| S5 | 177412 | (pit or dislocation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/11 20:28 |
| S6 | 145542 | dop\$3 with (high\$2 low\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/11 20:29 |
| S7 | 46391 | dop\$3 with (high\$2 low\$2) with (concentration density) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/11 20:30 |

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| S8 | 64 | S3 and S4 and S5 and S7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/11 20:30 |
| S9 | 30 | S8 and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/11 20:32 |
| S10 | 45 | S5 and 257/101.ccls. and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/11 20:49 |
| S11 | 55 | S5 and 257/102.ccls. and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/11 21:03 |
| S12 | 301 | S5 and 257/103.ccls. and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/11 21:15 |
| S13 | 78 | S12 and pit | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/11 21:15 |
| S14 | 18 | ("5091333" "5895706" "5927995" "6010937" "6015979" "6281524").PN. OR ("6555846").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/11 22:10 |
| S15 | 1398 | pioneer.asn. and pit | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/11 22:20 |
| S16 | 37 | pioneer.asn. and pit and LED | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/11 22:20 |

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| S17 | 101 | dop\$3 with (high\$2 low\$2) with (GaN III\$1V) with (germanium Ge) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 00:30 |
| S18 | 53 | S17 and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 00:31 |
| S19 | 54 | (dop\$3 with (high\$2 low\$2) with (GaN III\$1V (III near2 nitride)) with (germanium Ge)) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 00:35 |
| S20 | 97043 | (III near nitride) or (III \$1nitride) or (III\$1V) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 00:45 |
| S21 | 3443 | (n\$1type or n\$1dop\$3) near4 (Germanium Ge) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 00:45 |
| S22 | 177753 | (pit or dislocation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 00:45 |
| S23 | 46511 | dop\$3 with (high\$2 low\$2) with (concentration density) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 00:45 |
| S24 | 64 | S20 and S21 and S22 and S23 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 00:45 |
| S25 | 30 | S24 and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 00:47 |

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| S26 | 285 | 257/94.cor. and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 00:55 |
| S27 | 18 | 257/615.cor. and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 14:17 |
| S28 | 5 | ("20020046693" "20030070607" "20030134493" "6447604" "6773504").PN. OR ("7288830").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/22 14:30 |
| S29 | 317 | 257/615.ccls. and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 14:36 |
| S30 | 4 | 257/e33.023.ccls. and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 15:59 |
| S31 | 7 | 257/e29.087.ccls. and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:00 |
| S32 | 347 | 257/616.ccls. and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:02 |
| S33 | 337 | S32 not S29 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:02 |
| S34 | 542 | high\$2 with low\$2 with dop\$3 with (germanium Ge) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:11 |

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|-----|--------|--|---|----|----|---------------------|
| S35 | 1198 | n\$1type with (group near2 III) with nitride | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:13 |
| S36 | 94849 | (pit or protrusion) near3 surface | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:14 |
| S37 | 0 | S34 and S35 and S36 and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:14 |
| S38 | 609876 | (pit or protrusion) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:14 |
| S39 | 0 | S34 and S35 and S38 and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:15 |
| S40 | 0 | S34 and S35 and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:16 |
| S41 | 5015 | high\$2 same low\$2 same dop \$3 same(germanium Ge) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:16 |
| S42 | 0 | S35 and S38 and S41 and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:17 |
| S43 | 14 | S35 and S41 and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:17 |

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|-----|-------|---|---|----|-----|---------------------|
| S44 | 97043 | (III near nitride) or (III \$1nitride) or (III\$1V) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 16:45 |
| S45 | 3443 | (n\$1type or n\$1dop\$3) near4 (Germanium Ge) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 16:45 |
| S46 | 46511 | dop\$3 with (high\$2 low\$2) with (concentration density) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:45 |
| S47 | 28 | S44 and S45 and pit and S46 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:45 |
| S48 | 9 | S47 and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 16:46 |
| S49 | 3854 | (group near III near nitride near semiconductor) or (III-V near nitride near compound near semiconductor) or (GaN- based near2 semiconductor) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 18:33 |
| S50 | 94779 | n-type near2 (layer or film or structure or region) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 18:33 |
| S51 | 53954 | (high\$2 near2 concentration) same (low\$2 near2 concentration) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 18:37 |
| S52 | 2695 | S50 same S51 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 18:42 |

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| S53 | 189 | S50 same ((Ge near2 dop\$3) or (dop\$3 near Ge)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 18:44 |
| S54 | 3398266 | pits or holes or cavities or depressions or valley or trough or recess | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 18:45 |
| S55 | 4 | S49 and S52 and S53 and S54 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 18:47 |
| S56 | 0 | S55 and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 18:49 |
| S57 | 14 | S49 and S52 and S54 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 19:02 |
| S58 | 55 | S49 and S50 and S51 and S54 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 19:09 |
| S59 | 22 | S58 and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 19:12 |
| S60 | 24362 | (n-type near2 (layer or film or structure or region)) same concentration | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 19:17 |
| S61 | 216 | S49 and S60 and S54 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 19:18 |

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| S62 | 16 | ("20020123246" "20030070607" "20040169192" "20040206299" "20050156153" "20060046511" "6365921" "6555846").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 19:53 |
| S63 | 28 | ("5886367" "5927995" "6072197" "6100545" "6130446").PN. OR ("6365921").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/22 20:04 |
| S64 | 24 | kawano.in. and (group near III) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 20:40 |
| S65 | 0 | ("jp2003-017420").PN. | JPO; DERWENT | OR | OFF | 2009/04/22 20:47 |
| S66 | 0 | ("jp2003-17420").PN. | JPO; DERWENT | OR | OFF | 2009/04/22 20:47 |
| S67 | 0 | ("2003-17420").PN. | JPO; DERWENT | OR | OFF | 2009/04/22 20:47 |
| S68 | 4 | ("2003017420").PN. | JPO; DERWENT | OR | OFF | 2009/04/22 20:47 |
| S69 | 7 | ("20020053679" "20020136932" "5488233" "5740192" "6153894" "6462357" "6555846").PN. OR ("6943366").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/22 21:31 |
| S70 | 2 | ("20040188691").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 21:35 |
| S71 | 6 | ("6261931").PN. OR ("6462357").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/22 21:37 |
| S72 | 53838 | dislocation | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 21:41 |
| S73 | 4 | S49 and S52 and S53 and S72 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 21:42 |
| S74 | 30 | S49 and S50 and S51 and (dislocation dis\$1location) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/22 21:44 |

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| S75 | 14 | S74 and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/22 21:44 |
| S76 | 3 | (bandoh near akira).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/23 09:11 |
| S77 | 2 | ("20040113166").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/23 09:19 |
| S78 | 2 | "7053420".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/23 09:22 |
| S79 | 15 | ("20010050376" "20030085411" "20040048471" "5727015" "5779924" "6091083" "6091085" "6316785" "6617182" "6720586" "6940098").PN. OR ("7053420").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/23 09:22 |
| S80 | 5 | ("20030218179" "20040113166" "6091085" "6531719" "6623998").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/23 09:28 |
| S81 | 0 | 257/e33.033.ccls. and @ad<"20040427" and (pits or dislocation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/23 09:31 |
| S82 | 2 | 257/e33.033.ccls. and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/23 09:31 |
| S83 | 4 | 257/e33.034.ccls. and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/23 09:32 |

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| S84 | 1477 | 257/79.ccls. and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/23 09:38 |
| S85 | 687 | 257/79.cor. and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/23 09:39 |
| S86 | 115 | 257/79.cor. and @ad<"20040427" and (pits or dislocation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/23 09:40 |
| S87 | 11 | 257/101.cor. and @ad<"20040427" and (pits or dislocation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/23 10:01 |
| S88 | 10 | 257/102.cor. and @ad<"20040427" and (pits or dislocation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/23 10:03 |
| S89 | 121 | 257/103.cor. and @ad<"20040427" and (pits or dislocation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/23 10:05 |
| S90 | 2 | ("20020123246").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/23 14:06 |
| S91 | 37 | ("20020036286" "20020042159" "20020043890" "20030178634" "20040026704" "20040051105" "3909929" "4985113" "5332697" "5429954" "5633192" "5652438" "5717226" "5767581" "5786233" "5787104" "5804918" "5874747" "5880485" "5888886" "5900650" "5929466" "6030848" "6046464" "6090666" "6103604" "6172382" | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/23 14:40 |

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| | | "6177684" "6191436" "6242328" "6261862" "6277665" "6355945" "6423984" "6429102" "6455337" "6465808").PN. OR ("6861270").URPN. | | | | |
| S92 | 8 | ("4139858" "4862471" "5679152").PN. OR ("6103604").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/23 14:47 |
| S93 | 1116 | ((dop\$3 impurity) with (high\$2 low\$2)) and (GaN III\$1V (III near2 nitride)) and (dop\$3 with (germanium Ge)) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 13:32 |
| S94 | 263 | S93 and (dislocation or pits) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 13:33 |
| S95 | 149 | S94 and (layered stack\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 13:33 |
| S96 | 28464846 | ((dop\$3 impurity) with (high\$2 low\$2) with (germanium Ge)) and (GaN III\$1V (III near2 nitride)) and (layered stack\$2) and pits @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 13:41 |
| S97 | 12 | ((dop\$3 impurity) with (high\$2 low\$2) with (germanium Ge)) and (GaN III\$1V (III near2 nitride)) and (layered stack\$2) and pits and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 13:42 |
| S98 | 137 | ((dop\$3 impurity) with (high\$2 low\$2) with (germanium Ge)) and (GaN III\$1V (III near2 nitride)) and (layered stack\$2) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 13:44 |
| S99 | 31 | ((dop\$3 impurity) with (high\$2 low\$2) with (germanium Ge)) and ((GaN III\$1V (III near2 nitride)) with (resist\$3 conduct \$5)) and (layered stack\$2) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 14:09 |
| S100 | 72 | ((GaN III\$1V (III near2 nitride)) same ((germanium Ge) near4 (dop\$3 impurity)) same ((high low) and (resist\$5 conduct\$5))) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 14:18 |

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|------|-------|--|---|----|-----|---------------------|
| S101 | 3862 | (group near III near nitride near semiconductor) or (III-V near nitride near compound near semiconductor) or (GaN-based near2 semiconductor) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 14:35 |
| S102 | 94870 | n-type near2 (layer or film or structure or region) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 14:35 |
| S103 | 54023 | (high\$2 near2 concentration) same (low\$2 near2 concentration) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 14:35 |
| S104 | 30 | S101 and S102 and S103 and (dislocation dis\$1location) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 14:35 |
| S105 | 14 | S101 and S102 and S103 and (dislocation dis\$1location) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 14:38 |
| S106 | 97115 | (III near nitride) or (III \$1nitride) or (III\$1V) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 14:42 |
| S107 | 3443 | (n\$1type or n\$1dop\$3) near4 (Germanium Ge) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/27 14:42 |
| S108 | 46561 | dop\$3 with (high\$2 low\$2) with (concentration density) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 14:42 |
| S109 | 28 | S106 and S107 and pit and S108 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 14:42 |

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| S110 | 4565 | S102 and S103 and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 14:43 |
| S111 | 168 | S110 and (dop\$3 near5 (ge Germanium)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 14:45 |
| S112 | 6 | S111 and S101 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 14:57 |
| S113 | 5 | ("20030047744" "5889806" "6249534" "6252894" "6597716").PN. OR ("6822272").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/27 15:08 |
| S114 | 47 | S111 and (low near resistance) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 16:14 |
| S115 | 2 | "6462357".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/27 16:34 |
| S116 | 6 | ("6261931").PN. OR ("6462357").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/27 16:46 |
| S117 | 7 | ("20020053679" "20020136932" "5488233" "5740192" "6153894" "6462357" "6555846").PN. OR ("7172956").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/27 16:47 |
| S118 | 6 | ("6261931").PN. OR ("6462357").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/27 17:30 |
| S119 | 5 | ("20020046693" "20030070607" "20030134493" "6447604" "6773504").PN. OR ("7288830").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/27 17:52 |
| S120 | 8 | ("20020123246" "20030070607" "20040169192" "20040206299" "20050156153" "20060046511" "6365921" "6555846").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/27 18:10 |

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| S121 | 28 | ("5886367" "5927995" "6072197" "6100545" "6130446").PN. OR ("6365921").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/27 18:20 |
| S122 | 1 | "20050104081" | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/04/29 14:20 |
| S123 | 2 | ("20070029560").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/04 12:40 |
| S124 | 14 | ("20040211969" "20050062399" "20050224829" "20050236630" "20060273324" "20070018183" "20070170448").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/04 12:42 |
| S125 | 2 | ("20020123246").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/04 12:54 |
| S126 | 0 | ("(AsainearKeiichiro).in.and (III near nitride)").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/04 13:27 |
| S127 | 50 | (Asai near Keiichiro).in. and (III near nitride) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/04 13:27 |
| S128 | 50 | (Asai near Keiichiro).in. and (III near nitride) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/04 13:27 |
| S129 | 228 | (NGK near INSULATORS).asn. and(III near nitride) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/04 13:31 |
| S130 | 111 | (NGK near INSULATORS).asn. and(III near nitride) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/04 13:32 |

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| S131 | 5 | ("20020061655" "20020155649" "20020190275" "5549951" "6508878").PN. OR ("6749957").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/05/04 13:35 |
| S132 | 4 | "2003017420" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/04 17:39 |
| S133 | 289 | (KAWANO near KENJI).in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/04 17:40 |
| S134 | 0 | (KAWANO near KENJI).in. and (III near nitride) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/04 17:40 |
| S135 | 0 | (KAWANO near KENJI).in. and (GaN) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/04 17:41 |
| S136 | 1 | (KAWANO near KENJI).in. and Nichia | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/04 17:41 |
| S137 | 1 | (KAWANO near KENJI).in. and (gallium near nitride) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/04 17:41 |
| S138 | 97235 | (III near nitride) or (III \$1nitride) or (III\$1V) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 10:17 |
| S139 | 130 | S138 and ((carrier near gas) with flow with (high\$2 low\$2)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 10:17 |

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| S140 | 97235 | (III near nitride) or (III \$1nitride) or (III\$1V) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 16:29 |
| S141 | 59 | S140 and (((("carrier gas" or "inert gas") near4 flow) with (dop\$3 impurity)) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 16:29 |
| S142 | 0 | S140 and (((("carrier gas" or "inert gas") with flow with different) with (dop\$3 impurity)) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 17:06 |
| S143 | 96 | S140 and (((("carrier gas" or "inert gas") with flow) with (dop\$3 impurity)) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 17:06 |
| S144 | 94 | ((("carrier gas" or "inert gas") same (high near2 concentration) same (low near concentration)) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 17:23 |
| S145 | 5 | ((("carrier gas" or "inert gas") same (high near2 concentration) same (low near concentration) same (flow near2 rate)) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 17:26 |
| S146 | 4 | (effect with carrier with gas with flow with Dop\$3) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 17:34 |
| S147 | 1 | ((affect influence) with carrier with gas with flow with Dop \$3) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 17:37 |
| S148 | 590562 | (affect influence same ("carrier gas flow") same Dop\$3) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 17:38 |

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| S149 | 3 | ((affect influence) same ("carrier gas flow") same Dop \$3) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 17:39 |
| S150 | 2 | S140 and (carrier near gas near flow near (high low higher lower)) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 17:58 |
| S151 | 17 | S140 and ((carrier near gas near flow) with (high low higher lower)) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 18:04 |
| S152 | 8 | S140 and ((inert near gas near flow) with (high low higher lower)) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 18:07 |
| S153 | 1035 | ((inert near gas near flow) with (high low higher lower)) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 18:09 |
| S154 | 731 | ((carrier near gas near flow) with (high low higher lower)) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 18:09 |
| S155 | 88 | S154 and ("257"/\$.ccls. or "438"/\$.ccls.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/05 18:17 |
| S156 | 731 | ((carrier near gas near flow) with (high low higher lower)) and @ad<"20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 09:41 |
| S157 | 63 | S156 and ("438"/\$.ccls.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 09:41 |

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| S158 | 17 | ((carrier near gas near flow) with (high low higher lower) with dop\$3) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 09:43 |
| S159 | 14 | 438/935.ccls. and (carrier near gas near flow) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 10:00 |
| S160 | 17 | ("4745088").PN. OR ("4992301").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/05/06 10:05 |
| S161 | 5 | ("2003010993").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 10:34 |
| S162 | 0 | ("200310993").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 10:35 |
| S163 | 2 | ("20030010993").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 10:35 |
| S164 | 4 | ("2001022946").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 11:26 |
| S165 | 1 | ("200122946").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 11:26 |
| S166 | 4 | ("2001022946").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 11:26 |
| S167 | 2 | "6252255".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 11:27 |

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| S168 | 253 | (control\$3 with growth with ((carrier inert) near2 gas)) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 12:06 |
| S169 | 14 | (control\$3 with growth with dop\$3 with ((carrier inert) near2 gas)) and @ad< "20040427" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 12:28 |
| S170 | 2 | ("20030089300").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/06 12:37 |

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